

### **WHAT IS CLAIMED IS:**

1. A lens assembly comprising:

A first group of lens having negative power, a second group of lens having positive power, and a third group of lens having positive power arranged in sequence  
5 from an object side, a gap between the first group of lens and the second group of lens being reduced and a gap between the second group of lens and the third group of lens being widened when Wide mode changed to Tele mode, the first group of lens having a negative meniscus lens with a convex surface facing the object side and a positive meniscus lens with a convex surface facing the object side, the second  
10 group of lens having positive glued-lenses and a negative meniscus lens with a convex surface facing the object side, the third group of lens having a bi-convex lens.

2. The lens assembly as claimed in claim 1, wherein the focal length of the meniscus lens is  $f_{2n}$  and the when the focal length of the whole second group of lens  
15 is  $f_2$ , the criteria is  $1.0 < |f_{2n}/f_2| < 2.2$ .

3. The lens assembly as claimed in claim 1, wherein the Abbe number of the negative meniscus lens is  $V_{2n}$  the criteria is  $35 < V_{2n} < 58$ .

4. The lens assembly as claimed in claim 1, wherein the negative meniscus lens has a surface which faces the object becomes an aspheric surface when the lens  
20 moves toward the periphery.

5. The lens assembly as claimed in claim 1, wherein the negative meniscus lens of the first group of lens has a surface facing the image plane becomes an aspheric surface when the lens moves toward the periphery.